

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FP20428	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/AU2004/001322	International filing date (day/month/year) 24 September 2004	(Earliest) Priority Date (day/month/year) 26 September 2003
Applicant GRADEN INDUSTRIES PTY LTD et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II).

3. ☐ Unity of invention is lacking (See Box No. III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. I

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

Box No. IV \ Text of the Abstract (Continuation of item 5 of the first sheet)

A scarifier (10) for cutting turf includes a frame (11) supported on wheels (13) and a plurality of circular cutting blades co-axially mounted on a rotor shaft (18) supported by the frame (11). Driving means (14, 15, 16, 17) drives the rotor shaft (18) to rotate the blades. Adjustment means (31) adjust the relative position of the wheels (13) and the rotor shaft (18), thereby adjusting the height of the rotor shaft (18) off the ground.

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: A01B 45/02; A01G 1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DWPI, US and EP databases with keywords (eg scarifier, height, wheel, blade)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	GB 2279221 A (SISIS EQUIPMENT (MACCLESFIELD) LIMITED) 4 January 1995 Entire document	1-7, 12-14 8-11, 18-24
X Y	GB 2164231 A (SISIS EQUIPMENT (MACCLESFIELD) LIMITED (UNITED KINGDOM)) 19 March 1986 Entire document	1-7, 12-14 8-11, 18-24
X Y	EP 472103 B (SABO-MASCHINENFABRIK AKTIENGESELLSCHAFT) 4 May 1994 Entire document	1-5, 15-17, 25-29 18-24

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
12 November 2004Date of mailing of the international search report
18 NOV 2004Name and mailing address of the ISA/AU
AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaustalia.gov.au
Facsimile No. (02) 6285 3929Authorized officer
A. SEN
Telephone No : (02) 6283 2158

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2268385 A (JUKES) 12 January 1994 Entire document	1-5, 15-17, 25-29 18-24
Y		
X	GB 2301012 A (SABO-MASCHINENFABRIK GmbH) 27 November 1996 Entire document	1-5
Y	US 4028868 A (ZEHRUNG, Jr) 14 June 1977 Entire document	8-11, 21-23
Y	DE 29708651 U1 (VIKING-UMWELTTECHNIK GES.m.b.H) 28 August 1997 Entire document	9-11
	<p>Note: The following claims lack an inventive step:</p> <p>(i) Claim 8 with respect to GB 2279221 or GB 2164231 when either is combined with US 4028868</p> <p>(ii) Claims 9-11 each with respect to GB 2279221 or GB 2164231 when either is combined with US 4028868 and then with DE 29708651</p> <p>(iii) Claims 18, 19, 20, 24 each with respect to EP 472103 or GB 2268385 when either is combined with GB 2279221 or GB 2164231</p> <p>(iv) Claims 21-23 each with respect to EP 472103 or GB 2268385 when either is combined with US 4028868 and then with GB 2279221 or GB 2164231</p>	

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member	
GB	2279221	NIL	
GB	2164231	NIL	
EP	0472103	DE	4026738
GB	2268385	NIL	
GB	2301012	FR	2734449
		NL	1002883
US	4028868	NIL	
DE	29708651	NIL	

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX